RUTGERS SCHOOL OF ENGINEERING
Advancing Leaders to Solve Today’s Complex Engineering Challenges

Industrial and Systems Engineering
Master of Engineering Graduate Degree Program
Rutgers School of Engineering’s Master of Engineering degree in Applied Industrial and Systems Engineering is a career-directed program for those looking to enhance their existing industrial practice in focused areas, including planning and operations engineering, data analytics, and risk and uncertainty. Designed to integrate theory with applied training and skills, students will combine diversified coursework with hands-on learning that is relevant across a variety of industries from advanced manufacturing and healthcare to transportation, infrastructure, financial systems, and more.

Master of Engineering Degree Requirements
- 30 credits
- Core engineering areas of data analysis, decision making, and planning, plus electives
- Industry internship or capstone project

Why Rutgers Industrial and Systems Engineering?
- Our vibrant academic community is committed to integrating education and research to achieve transformational innovation that is ethically responsible and sustainable.
- Our Industrial and Systems Engineering graduate program is ranked among the top 20 in the nation by U.S. News and World Report.
- Our students engage in relevant hands-on projects with leading corporations.
- Our accomplished faculty are experts in their fields of research.
- Our collaborative relationships with across a variety of industries allow us to offer career support for students.

Applied Learning
Emphasis on applied problem solving, the use of technology for engineering applications, and unique internship opportunities are key components of the program. Students completing this degree will understand how to gather and analyze engineering data, identify trends and patterns to better predict future events and make decisions in complex, dynamic environments, and consider risk and account for uncertainty.

Core engineering courses cover a wide spectrum of subjects, including:
- Data analytics for engineering systems
- Decision making under uncertainty
- Planning and operations engineering

Elective courses enable students to customize their program to interest areas:
- Advanced engineering economics
- Advanced manufacturing processes
- Design of experiments
- Facilities planning and design
- Forecasting and time series analysis
- Procurement management and global sourcing
- Production analysis
- Production and manufacturing project
- Quality management
- Simulation of production systems
- Statistical quality control
- Supply chain engineering
- Supply chain management strategies
- Supply chain risk management
- Systems reliability engineering

For application deadlines and more information, visit: ise.rutgers.edu/GraduatePrograms